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Please amend the present application as follows:

**Claims** 

The following is a copy of Applicants' claims that identifies language being added

with underlining ("\_\_\_") and language being deleted with strikethrough ("---"), as is

applicable:

1. (Currently Amended) A method for synthesizing filters, comprising:

providing a first microelectromechanical system (MEMS) resonator and a second

MEMS resonator adjacent to the first MEMS resonator; and

electrically coupling the first MEMS resonator and to the second MEMS

resonator.

2. (Original) The method of claim 1, further including electrically coupling

additional resonators.

3. (Original) The method of claim 1, wherein electrically coupling includes

providing a shunt capacitor to ground in between the first MEMS resonator and the

second MEMS resonator.

4. (Original) The method of claim 1, wherein electrically coupling includes

effecting a series capacitance between the resonating body of the first MEMS resonator

and that of the second MEMS resonator.

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5. (Original) The method of claim 1, wherein electrically coupling includes

providing an active component between the first MEMS resonator and the second MEMS

resonator.

6. (Original) The method of claim 5, wherein the active component includes an

amplifier.

7. (Original) The method of claim 5, further including applying a polarization

voltage to effect a resonance frequency at the first MEMS resonator that is substantially

equal to the second MEMS resonator frequency; and cascading the first MEMS resonator

with the second MEMS resonator such that Q-amplification is effected.

8. (Original) A microelectromechanical system (MEMS) filter system, comprising:

a first MEMS resonator; and

a second MEMS resonator electrically coupled to the first MEMS resonator.

9. (Original) The system of claim 8, further including additional MEMS resonators

electrically coupled to each other.

10. (Original) The system of claim 8, wherein the first MEMS resonator and the

second MEMS resonator are electrically coupled with a shunt capacitor to ground

disposed between the first MEMS resonator and the second MEMS resonator.

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11. (Original) The system of claim 8, wherein the first MEMS resonator and the

second MEMS resonator are electrically coupled using a series capacitance disposed

between the resonating body of the first MEMS resonator and that of the second MEMS

resonator.

12. (Original) The system of claim 8, wherein the first MEMS resonator and the

second MEMS resonator are electrically coupled using an active component disposed

between the first MEMS resonator and the second MEMS resonator.

13. (Original) The system of claim 12, wherein the active component includes an

amplifier.

14. (Original) A communications device, comprising:

a receiver; and

a microelectromechanical system (MEMS) filter system disposed in the receiver,

the MEMS filter system comprising:

a first MEMS resonator; and

a second MEMS resonator electrically coupled to the first MEMS

resonator.

15. (Original) The communications device of claim 14, further comprising a

transmitter.

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16. (Original) The communications device of claim 15, wherein the transmitter comprises a second MEMS filter system, the second MEMS filter system comprising:

a third MEMS resonator; and

a fourth MEMS resonator electrically coupled to the third MEMS resonator.

17. (New) The method of claim 1, wherein electrically coupling includes providing a coupling capacitor element between the first MEMS resonator and the second MEMS resonator.

18. (New) The system of claim 8, wherein the first MEMS resonator and the second MEMS resonator are electrically coupled with a coupling capacitor element disposed between the first MEMS resonator and the second MEMS resonator.